

=> b medline caplus lifesci embase uspatfull biosis		
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	ENTRY	SESSION
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=> s lgs
 L1 1135 LGS

=> s hlgs
 L2 17 HLGS

=> s lgs or hlgs or legless
 L3 1459 LGS OR HLGS OR LEGLESS

=> s l3 and protein
 L4 160 L3 AND PROTEIN

=> dup rem l4
 PROCESSING COMPLETED FOR L4
 L5 89 DUP REM L4 (71 DUPLICATES REMOVED)

=> s l5 and (bcl()9) or wnt
 L6 10213 L5 AND (BCL(W) 9) OR WNT

=> s l5 and ((bcl()9) or wnt)
 L7 4 L5 AND ((BCL(W) 9) OR WNT)

=> d l7 ibib abs tot

L7 ANSWER 1 OF 4 MEDLINE
 ACCESSION NUMBER: 2002218848 MEDLINE
 DOCUMENT NUMBER: 21952490 PubMed ID: 11955446
 TITLE: ***wnt*** /wingless signaling requires BCL9/
 legless -mediated recruitment of pygopus to the
 nuclear beta-catenin-TCF complex.
 AUTHOR: Kramps Thomas; Peter Oliver; Brunner Erich; Nellen Denise;
 Froesch Barbara; Chatterjee Sandipan; Murone Maximilien;
 Zullig Stephanie; Basler Konrad
 CORPORATE SOURCE: Institut fur Molekularbiologie, Universitat zurich,
 winterthurerstrasse 190, CH-8057, zurich, Switzerland.
 SOURCE: CELL, (2002 Apr 5) 109 (1) 47-60.
 Journal code: 0413066. ISSN: 0092-8674.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 OTHER SOURCE: GENBANK-AF457205; GENBANK-AF457206; GENBANK-AF457207;
 GENBANK-AF457208; GENBANK-XM050063
 ENTRY MONTH: 200205
 ENTRY DATE: Entered STN: 20020417
 Last Updated on STN: 20020509
 Entered Medline: 20020508

AB ***wnt*** /wingless signaling controls many fundamental processes
 during animal development. ***wnt*** transduction is mediated by the
 association of beta-catenin with nuclear TCF DNA binding factors. Here we
 report the identification of two segment polarity genes in Drosophila,

their products are required for ***wnt*** signal transduction at the level of nuclear beta-catenin. ***Lgs*** encodes the homolog of human BCL9, and we provide genetic and molecular evidence that these proteins exert their function by physically linking Pygo to beta-catenin. Our results suggest that the recruitment of Pygo permits beta-catenin to transcriptionally activate ***wnt*** target genes and raise the possibility that a deregulation of these events may play a causal role in the development of B cell malignancies.

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:754420 CAPLUS
DOCUMENT NUMBER: 137:274135
TITLE: CDNAs encoding Drosophila melanogaster, mouse and human Doll (daughter of ***legless***) proteins of the ***wnt*** /wg signaling pathway and their diagnostic and therapeutic use
INVENTOR(S): Kramps, Thomas; Basler, Konrad
PATENT ASSIGNEE(S): Universitaet Zuerich, Switz.
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002077023	A2	20021003	WO 2002-CH63	20020201
WO 2002077023	A3	20030116		

W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-277976P P 20010323

AB The present invention relates to a new essential downstream component of the wingless signaling pathway. In particular, the invention relates to nucleotide sequences of the Drosophila melanogaster daughter of ***legless*** (dollar) gene, of its encoded proteins, as well as derivs., fragments and analogs thereof. The invention includes vertebrate and invertebrate homologues of the Doll ***protein***, comprising proteins that contain a stretch of amino acids with similarity to the Drosophila Doll gene. Methods for producing the Doll ***protein***, derivs. and analogs, e.g. by recombinant means, and antibodies to Doll are provided by the present invention as well. The invention also relates to methods for performing high throughput screening assays for compds. modulating Doll function in the ***wnt*** pathway.

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:505439 CAPLUS
DOCUMENT NUMBER: 137:89997
TITLE: ***Legless***, essential downstream component of wingless signaling pathway, and therapeutic and diagnostic applications based thereon
INVENTOR(S): Basler, Konrad; Brunner, Erich; Froesch, Barbara; Kramps, Thomas; Peter, Oliver
PATENT ASSIGNEE(S): Switz.
SOURCE: U.S. Pat. Appl. Publ., 41 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002086986	A1	20020704	US 2001-915543	20010727

PRIORITY APPLN. INFO.: US 2000-221502P P 20000728

AB The present invention relates to a new essential downstream component of the ***wnt*** /wingless (***wnt*** /wg) signaling pathway and therapeutic and diagnostic applications based thereon. The invention

legless (***lgs***) gene, of its encoded ***protein*** , as well as derivs. (e.g., fragments) and analogs thereof. The invention further includes the human homologs of the ***lgs*** ***protein*** and CDNAs encoding them. Methods for producing the ***lgs*** proteins, derivs. and analogs, e.g., by recombinant means and antibodies to ***lgs*** are provided by the present invention. In addn., the invention also relates to the therapeutic and diagnostic methods and compns. based on ***lgs*** proteins and nucleic acids or fragments thereof. Thus, the human homolog of ***lgs*** was found to be ***bc1*** - ***g*** , previously implicated in B cell malignancies. A second human ***lgs*** homolog was called ***lgs*** -1. The Drosophila ***lgs*** ***protein*** formed a complex with Armadillo and Pangolin and enhanced the transcriptional activity of the complex.

L7 ANSWER 4 OF 4 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
 ACCESSION NUMBER: 1998020962 EMBASE
 TITLE: Developmental regulation and asymmetric expression of the gene encoding Cx43 gap junctions in the mouse limb bud.
 AUTHOR: Meyer R.A.; Cohen M.F.; Recalde S.; Zakany J.; Bell S.M.; Scott W.J. Jr.; Lo C.W.
 CORPORATE SOURCE: C.W. Lo, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104, United States
 SOURCE: Developmental Genetics, (1997) 21/4 (290-300).
 Refs: 63
 ISSN: 0192-253X CODEN: DGNTDW
 COUNTRY: United States
 DOCUMENT TYPE: Journal; Article
 FILE SEGMENT: 021 Developmental Biology and Teratology
 022 Human Genetics
 LANGUAGE: English
 SUMMARY LANGUAGE: English

AB The Gja 1 gene encoding the gap junction connexin 43 (Cx43) is dynamically regulated during limb morphogenesis. Transcript expression is found in many regions of the limb bud known to be important in regulating limb growth and patterning. In the newly emerged limb bud, Gja 1 transcripts are first expressed in the ventrodiscal margin of the ectoderm, and later transcript expression is localized to the apical ectodermal ridge (AER). Interestingly, transcript expression in the ventrodiscal ectoderm is initiated left/right asymmetrically, with some strain backgrounds showing reverse sidedness in the fore vs. hindlimb buds. In ***legless*** , a mouse mutant exhibiting both limb and left/right patterning defects, Gja 1 transcripts could not be detected in this region. However, in the iv/iv embryo, a mutant with randomization of body situs, the same pattern of Gja 1 asymmetry was found in the limb ectoderm regardless of body situs. This suggests that Gja 1 transcript expression is not directly linked to signaling pathways involved in specification of the left/right axis. In addition to transcript expression in the apical ectodermal ridge, Gja 1 transcripts were also found at high levels in the ventral ectoderm. In the limb bud mesenchyme, Gja 1 transcripts were distributed in a posterior distal gradient, coincident with tissue known to have polarizing activity. With limb outgrowth and the initiation of limb mesenchyme condensation, Gja 1 transcripts were localized in the presumptive progress zone, and in the condensing mesenchyme. In more proximal regions of the limb where mesenchyme differentiation has been initiated, Gja 1 transcripts were expressed only in the outer mesenchymal cells comprising the presumptive perichondrium. Further analysis of transgenic mice ectopically expressing ***wnt*** -1 in the limb mesenchyme revealed alterations in the pattern of Gja 1 transcript expression in conjunction with the perturbation of limb mesenchyme condensation and differentiation. Together, these findings indicate that Cx43 gap junctions may mediate cell-cell interactions important in cell signaling processes involved in limb growth and patterning.

=> e Basler ?/au

E1	1	BASLEGA JOSE/AU
E2	1	BASLEN MAX/AU
E3	0 -->	BASLER ?/AU
E4	145	BASLER A/AU
E5	1	BASLER A L/AU
E6	1	BASLER AD/AU
E7	5	BASLER ADOLF/AU
E8	17	BASLER ARMIN/AU
E9	18	BASLER B/AU
E10	1	BASLER BARBARA/AU
E11	2	BASLER BENNO/AU

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=> e Basler k?/au
E1      1      BASLER JULIAN N/AU
E2     165     BASLER K/AU
E3      0 -->  BASLER K?/AU
E4      1      BASLER KEITH R/AU
E5     105     BASLER KONRAD/AU
E6      3      BASLER L/AU
E7     72      BASLER M/AU
E8      1      BASLER M L/AU
E9      2      BASLER MARIANNE/AU
E10     4      BASLER MARTIN/AU
E11     4      BASLER MICHAEL/AU
E12     5      BASLER MICHEL/AU
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=> s e2 or e5
L8      270 "BASLER K"/AU OR "BASLER KONRAD"/AU
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```
=> dup rem 18
PROCESSING COMPLETED FOR L8
L9      78 DUP REM L8 (192 DUPLICATES REMOVED)
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=> s l9 and (lgs or hlgs or legless)
L10     3 L9 AND (LGS OR HLGS OR LEGLESS)
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=> d l10 ibib abs tot
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L10 ANSWER 1 OF 3      MEDLINE
ACCESSION NUMBER: 2002218848      MEDLINE
DOCUMENT NUMBER: 21952490      PubMed ID: 11955446
TITLE: wnt/wingless signaling requires BCL9/ ***legless***
      -mediated recruitment of pygopus to the nuclear
      beta-catenin-TCF complex.
AUTHOR: Kramps Thomas; Peter Oliver; Brunner Erich; Nellen Denise;
      Froesch Barbara; Chatterjee Sandipan; Murone Maximilien;
      Zullig Stephanie; ***Basler Konrad***
CORPORATE SOURCE: Institut fur Molekularbiologie, Universitat Zurich,
      Winterthurerstrasse 190, CH-8057, Zurich, Switzerland.
SOURCE: CELL, (2002 Apr 5) 109 (1) 47-60.
      Journal code: 0413066. ISSN: 0092-8674.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
OTHER SOURCE: GENBANK-AF457205; GENBANK-AF457206; GENBANK-AF457207;
      GENBANK-AF457208; GENBANK-XM050063
ENTRY MONTH: 200205
ENTRY DATE: Entered STN: 20020417
      Last Updated on STN: 20020509
      Entered Medline: 20020508
```

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AB wnt/wingless signaling controls many fundamental processes during animal
development. wnt transduction is mediated by the association of
beta-catenin with nuclear TCF DNA binding factors. Here we report the
identification of two segment polarity genes in Drosophila,
***legless*** ( ***lgs*** ), and pygopus (pygo), and we show that
their products are required for wnt signal transduction at the level of
nuclear beta-catenin. ***Lgs*** encodes the homolog of human BCL9, and
we provide genetic and molecular evidence that these proteins exert their
function by physically linking Pygo to beta-catenin. Our results suggest
that the recruitment of Pygo permits beta-catenin to transcriptionally
activate wnt target genes and raise the possibility that a deregulation of
these events may play a causal role in the development of B cell
malignancies.
```

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L10 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:754420 CAPLUS
DOCUMENT NUMBER: 137:274135
TITLE: cDNAs encoding Drosophila melanogaster, mouse and
      human Dc11 (daughter of ***legless*** ) proteins of
      the wnt/wg signaling pathway and their diagnostic and
      therapeutic use
INVENTOR(S): Kramps, Thomas; ***Basler, Konrad***
PATENT ASSIGNEE(S): Universitaet Zuerich, Switz.
SOURCE: PCT Int. Appl., 68 pp.
      CODEN: PIXXD2
DOCUMENT TYPE: Patent
```

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002077023	A2	20021003	WO 2002-CH63	20020201
WO 2002077023	A3	20030116		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, FR, GB, GE, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, VJ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-277976P P 20010323

AB The present invention relates to a new essential downstream component of the wingless signaling pathway. In particular, the invention relates to nucleotide sequences of the *Drosophila melanogaster* daughter of ****legless**** (*doll*) gene, of its encoded proteins, as well as derivs., fragments and analogs thereof. The invention includes vertebrate and invertebrate homologues of the *Doll* protein, comprising proteins that contain a stretch of amino acids with similarity to the *Drosophila Doll* gene. Methods for producing the *Doll* protein, derivs. and analogs, e.g. by recombinant means, and antibodies to *Doll* are provided by the present invention as well. The invention also relates to methods for performing high throughput screening assays for compds. modulating *Doll* function in the *wnt* pathway.

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:505439 CAPLUS

DOCUMENT NUMBER: 137:89997

TITLE: ****Legless****, essential downstream component of wingless signaling pathway, and therapeutic and diagnostic applications based thereon

INVENTOR(S): ****Basler, Konrad****; Brunner, Erich; Froesch, Barbara; Kramps, Thomas; Peter, Oliver

PATENT ASSIGNEE(S): Switz.

SOURCE: U.S. Pat. Appl. Publ., 41 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002086986	A1	20020704	US 2001-915543	20010727

PRIORITY APPLN. INFO.: US 2000-221502P P 20000728

AB The present invention relates to a new essential downstream component of the *wnt/wingless* (*wnt/wg*) signaling pathway and therapeutic and diagnostic applications based thereon. The invention relates to nucleotide sequences of the *Drosophila melanogaster* ****legless**** (****lgs****) gene, of its encoded protein, as well as derivs. (e.g., fragments) and analogs thereof. The invention further includes the human homologs of the ****Lgs**** protein and cDNAs encoding them. Methods for producing the ****Lgs**** proteins, derivs. and analogs, e.g., by recombinant means and antibodies to ****Lgs**** are provided by the present invention. In addn., the invention also relates to the therapeutic and diagnostic methods and compns. based on ****Lgs**** proteins and nucleic acids or fragments thereof. Thus, the human homolog of ****lgs**** was found to be *bcl-9*, previously implicated in B cell malignancies. A second human ****lgs**** homolog was called ****lgs***-1*. The *Drosophila* ****Lgs**** protein formed a complex with *Armadillo* and *Pangolin* and enhanced the transcriptional activity of the complex.

=> e brunner E?/au

E1	3	BRUNNER E L/AU
E2	1	BRUNNER E M/AU
E3	0 -->	BRUNNER E?/AU
E4	1	BRUNNER EARNST/AU
E5	4	BRUNNER EBERHARD/AU
E6	2	BRUNNER ECKHARD/AU

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E8      1      BRUNNER EDELTRAUT/AU
E9      5      BRUNNER EDGAR/AU
E10     1      BRUNNER EDI/AU
E11     2      BRUNNER EDUARD/AU
E12     2      BRUNNER EDUARD J/AU

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=> e brunner Er?/au

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E1      2      BRUNNER ENGELBERT/AU
E2     17      BRUNNER ENNO/AU
E3      0 -->  BRUNNER ER?/AU
E4     29      BRUNNER ERIC/AU
E5      5      BRUNNER ERIC J/AU
E6      2      BRUNNER ERIC P/AU
E7     23      BRUNNER ERICH/AU
E8      1      BRUNNER ERICH EDUARDO/AU
E9      1      BRUNNER ERIK/AU
E10     3      BRUNNER ERNEST/AU
E11    10      BRUNNER ERNST/AU
E12    44      BRUNNER ERWIN/AU

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=> s e7-e8

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L11     24 ("BRUNNER ERICH"/AU OR "BRUNNER ERICH EDUARDO"/AU)

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=> d history

(FILE 'HOME' ENTERED AT 11:27:15 ON 05 MAR 2003)

FILE 'MEDLINE, CAPLUS, LIFESCI, EMBASE, USPATFULL, BIOSIS' ENTERED AT 11:27:33 ON 05 MAR 2003

```

L1      1135 S LGS
L2      17 S HLGS
L3     1459 S LGS OR HLGS OR LEGLESS
L4      160 S L3 AND PROTEIN
L5      89 DUP REM L4 (71 DUPLICATES REMOVED)
L6     10213 S L5 AND (BCL()9) OR WNT
L7       4 S L5 AND ((BCL()9) OR WNT)
          E BASLER ?/AU
          E BASLER K?/AU
L8      270 S E2 OR E5
L9      78 DUP REM L8 (192 DUPLICATES REMOVED)
L10     3 S L9 AND (LGS OR HLGS OR LEGLESS)
          E BRUNNER E?/AU
          E BRUNNER ER?/AU
L11     24 S E7-E8

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=> s l11 not l8

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L12     16 L11 NOT L8

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=> dup rem l12

PROCESSING COMPLETED FOR L12

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L13     16 DUP REM L12 (0 DUPLICATES REMOVED)

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=> s l13 and (lgs or hlgs or legless or wnt)

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L14     0 L13 AND (LGS OR HLGS OR LEGLESS OR WNT)

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=> e froesch b?/au

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E1      15      FROESCH B/AU
E2      18      FROESCH B A/AU
E3      0 -->  FROESCH B?/AU
E4      9      FROESCH BARBARA/AU
E5     13      FROESCH BARBARA A/AU
E6     103      FROESCH D/AU
E7      5      FROESCH DIETER/AU
E8     970      FROESCH E R/AU
E9      2      FROESCH E RUDI/AU
E10     1      FROESCH E RUDLOF/AU
E11    122      FROESCH E RUDOLF/AU
E12     3      FROESCH E RUDOLPH/AU

```

=> s e1 or e2 or e4 pr e5

```

L15     33 "FROESCH B"/AU OR "FROESCH B A"/AU OR "FROESCH BARBARA"/AU PR
          "FROESCH BARBARA A"/AU

```

=> s e1 or e2 or e4 or e5

```

L16     55 "FROESCH B"/AU OR "FROESCH B A"/AU OR "FROESCH BARBARA"/AU OR
          "FROESCH BARBARA A"/AU

```

=> s l16 not l8
L17 48 L16 NOT L8

=> dup rem l17
PROCESSING COMPLETED FOR L17
L18 18 DUP REM L17 (30 DUPLICATES REMOVED)

=> s l18 and (lgs or hlgs or legless or wnt)
L19 0 L18 AND (LGS OR HLGS OR LEGLESS OR WNT)

=> e kramps t?/au
E1 4 KRAMPS T A/AU
E2 4 KRAMPS T A N/AU
E3 0 --> KRAMPS T?/AU
E4 6 KRAMPS THOMAS/AU
E5 2 KRAMPS THOMAS A/AU
E6 1 KRAMPTIZ DIETER/AU
E7 2 KRAMPTIZ R/AU
E8 1 KRAMR PATRICK J/AU
E9 1 KRAMRAEVA N A/AU
E10 1 KRAMRECH S/AU
E11 9 KRAMRISCH B/AU
E12 4 KRAMRISCH BERNARD/AU

=> s ee1-5
L20 1 EE1-5

=> s e1-e5
L21 18 ("KRAMPS T A"/AU OR "KRAMPS T A N"/AU OR "KRAMPS T?"/AU OR "KRAM
PS THOMAS"/AU OR "KRAMPS THOMAS A"/AU)

=> s l21 not l8
L22 10 L21 NOT L8

=> s l22 and (lgs or hlgs or legless or wnt)
L23 0 L22 AND (LGS OR HLGS OR LEGLESS OR WNT)

=> e peter o?/au
E1 177 PETER O/AU
E2 4 PETER O F/AU
E3 0 --> PETER O?/AU
E4 1 PETER OESCH HANS/AU
E5 2 PETER OESCH N/AU
E6 1 PETER OESCH NELLY/AU
E7 1 PETER OHMAN K/AU
E8 1 PETER OLIVAIN T S I S T E R/AU
E9 10 PETER OLIVER/AU
E10 19 PETER OLIVIER/AU
E11 1 PETER ORBAN/AU
E12 8 PETER OSKAR/AU

=> s e9-e10
L24 29 ("PETER OLIVER"/AU OR "PETER OLIVIER"/AU)

=> s l24 not l8
L25 22 L24 NOT L8

=> s l25 and (lgs or hlgs or legless or wnt)
L26 0 L25 AND (LGS OR HLGS OR LEGLESS OR WNT)